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Emmel, Elizabeth A.; Verweij, Cornelis L.; Durand, David B.; Higgins, Kay M.; Lacy, Elizabeth; Crabtree, Gerald R.: Cyclosporin A specifically inhibits function of nuclear proteins involved in T cell activation. p1617 22 Dec 1989.

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Jeremy: Intracellular targeting and structural conservation of a prohormone-processing endopeptidase. p482 27 Oct 1989.
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- Gaffey, Michael J. See Vilas, Faith.
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Giovanella, Beppino C.; Stehlin, John S.; Wall, Monroe E.; Wani, Mansukh C.; Nicholas, Allan W.; Liu, Leroy F.; Silber, Robert; Potmesil, Milan: DNA topoisomerase I-targeted chemotherapy of human colon cancer in xenografts. p1046 24 Nov 1989.
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- H**
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Hart, Clyde E.; Ou, Chin-Yih; Galphin, Judith C.; Moore, Jennifer; Bacheler, Lee T.; Waschut, John J.; Petteway, Steven R., Jr.; Schuchman, Gerald: Human chromosome 12 is required for elevated HIV-1 expression in human-hamster hybrid cells. p488 27 Oct 1989.
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Howell, Mark D.; Winters, Steven T.; Olee, Tsaiwei; Powell, Henry C.; Carlo, Dennis J.; Brostoff, Steven W.: Vaccination against experimental allergic encephalomyelitis with T cell receptor peptides. p668 3 Nov 1989.

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nical comment). p262 13 Oct 1989.

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Keck, Pamela J.; Hauser, Scott D.; Krivi, Gwen; Sanzo, Kim; Warren, Thomas; Feder, Joseph; Connolly, Daniel T.: Vascular permeability factor, an endothelial cell mitogen related to PDGF. p1309 8 Dec 1989.

Keirstead, S. A.; Rasmovsky, M.; Fukuda, Y.; Carter, D. A.; Aguayo, A. J.; Vidal-Sanz, M.: Electrophysiologic responses in hamster superior colliculus evoked by regenerating retinal axons. p255 13 Oct 1989.

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Lanier, Lewis, L.; Cwirla, Steve; Yu, George; Testi, Roberto; Phillips, Joseph H.: Membrane anchoring of a human IgG Fc receptor (CD16) determined by a single amino acid. p1611 22 Dec 1989.

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- ; Cachianes, George; Kuang, Wun-Jing; Goeddel, David V.; Ferrara, Napoleone: Vascular endothelial growth factor is a secreted angiogenic mitogen. p1306 8 Dec 1989.
- Levine, Myron. See Nardin, Elizabeth H.
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- Lewis, George N.; Ride, Sally K.; Townsend, John S.: Dispelling myths about verification of sea-launched cruise missiles. p765 10 Nov 1989.
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- Lin, Leu-Fen H.; Mismar, Drzislav; Lile, Jack D.; Armes, Lyman G.; Butler, Eugene T., III; Vannice, James L.; Collins, Frank: Purification, cloning, and expression of ciliary neurotrophic factor (CNTF). p1023 24 Nov 1989.
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- Liu, Pu; Legerski, Randy; Siciliano, Michael J.: Isolation of human transcribed sequences from human-rodent somatic cell hybrids. p813 10 Nov 1989.
- Livingston, Katherine: review of *Biology and Conservation of the River Dolphins*, edited by W. F. Perrin, R. L. Brownell, Jr., Zhou Kaiya, and Liu Jiankang, and *Handbook of Marine Mammals*, edited by Sam H. Ridgway and Richard Harrison. p682 3 Nov 1989. review of *Cantor's Dilemma*, by Carl Djerassi. p829 10 Nov 1989. review of *Studies of High Temperature Superconductors*, edited by Anant Narlikar and *Physical Properties of High Temperature Superconductors I*, edited by Donald M. Ginsberg. p512 27 Oct 1989.
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- Lue, Neal F.; Flanagan, Peter M.; Sugimoto, Katsunori; Kornberg, Roger D.: Initiation by yeast RNA polymerase II at the adenoviral major late promoter in vitro. p661 3 Nov 1989.
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- ## M
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- Mandelkow, Eckhard; Mandelkow, Eva-Maria; Hotani, Hirokazu; Hess, Benno; Müller, Stefan C.: Spatial patterns from oscillating microtubules. p1291 8 Dec 1989.
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- Mao, H. K.; Wu, Y.; Hemley, R. J.; Chen, L. C.; Shu, J. F.; Finger, L. W.: X-ray diffraction to 302 gigapascals: high-pressure crystal structure of cesium iodide. p649 3 Nov 1989.
- Margaritondo, G.; Huber, D. L.; Olson, C. G.: Photoemission spectroscopy of the high-temperature superconductivity gap. p770 10 Nov 1989.
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- Mellentin, Julia D.; Murre, Cornelis; Donlon, Timothy A.; McCaw, Patrick S.; Smith, Stephen D.; Carroll, Andrew J.; McDonald, Marcy E.; Baltimore, David; Cleary, Michael L.: The gene for enhancer binding proteins E12/E47 lies at the t(1;19) breakpoint in acute leukemias. p379 20 Oct 1989.
- Meng, Chin Kai. See Fenn, John B.
- Mercep, Mladen; Weissman, Allan M.; Frank, Stuart J.; Klausner, Richard D.; Ashwell, Jonathan D.: Activation-driven programmed cell death and T cell receptor ζ expression. p1162 1 Dec 1989.
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- Millar, Sarah E.; Chamow, Steven M.; Baur, Anne W.; Oliver, Constance; Robey, Frank; Dean, Jurrien: Vaccination with a synthetic

- zona pellucida peptide produces long-term contraception in female mice. p935 17 Nov 1989.
- Miller, Maria; Schneider, Jens; Sathyaranayana, Bangalore K.; Toth, Mihaly V.; Marshall, Garland R.; Clawson, Leigh; Selk, Linda; Kent, Stephen B. H.; Wlodawer, Alexander (news): Structure of complex of synthetic HIV-1 protease with a substrate-based inhibitor at 2.3 Å resolution. p1117 1 Dec 1989.
- Miller, Mark. See Murphrey-Corb, Michael.
- Miner, E. D. See Stone, E. C.
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- Miskelly, Gordon M.; Heben, Michael J.; Kumar, Amit; Penner, Reginald M.; Sailor, Michael J.; Lewis, Nathan S.: Analysis of the published calorimetric evidence for electrochemical fusion of deuterium in palladium. p793 10 Nov 1989.
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- Morrison, Nigel A.; Shine, John; Fragonas, Jean-Charles; Verkest, Veronique; McMenemy, M. Lynne; Eisman, John A.: 1,25-Dihydroxyvitamin D₃-responsive element and glucocorticoid repression in the osteocalcin gene. p1158 1 Dec 1989.
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- Mowery, David C.: review of *Made in America*, by Michael L. Dertouzos, Richard K. Lester, Robert M. Solow, and the MIT Commission on Industrial Productivity, and *Working Papers of the MIT Commission on Industrial Productivity*. p1642 22 Dec 1989.
- Muegge, Kathrin; Williams, Thomas M.; Kant, Jeffrey; Karin, Michael; Chiu, Robert; Schmidt, Albrecht; Siebenlist, Ulrich; Young, Howard A.; Durum, Scott K.: Interleukin-1 costimulatory activity on the interleukin-2 promoter via AP-1. p249 13 Oct 1989.
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- and Wold, Barbara: In vivo footprinting of a muscle specific enhancer by ligation mediated PCR. p780 10 Nov 1989.
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- Müller, Stefan C. See Mandelkow, Eckhard.
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- Murphrey-Corb, Michael; Martin, Louis N.; Davison-Fairburn, Billie; Montelaro, Ronald C.; Miller, Mark; West, Melanie; Ohkawa, Susumu; Baskin, Gary B.; Zhang, Jing-Yu; Putney, Scott D.; Allison, Anthony C.; Eppstein, Deborah A.: A formalin-inactivated whole SIV vaccine confers protection in macaques. p1293 8 Dec 1989.
- Murphree, A. Linn. See Miura, Koichiro.
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- N**
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- Ockenhouse, Christian F.; Tandon, Narendra N.; Magowan, Cathleen; Jamieson, G. A.; Chulay, Jeffrey D.: Malaria red cell cytoadherence (technical comment). p1051 24 Nov 1989.
- Odom, A. Leroy and Rink, William J.: Giant radiation-induced color halos in quartz: solution to a riddle. p107 6 Oct 1989.
- O'Farrell, Patrick H.; Edgar, Bruce A.; Lakich, Delia; Lehner, Christian F.: Directing cell division during development. p635 3 Nov 1989.
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- Pantev, C.; Hoke, M.; Lütkenhöner, B.; Lehnerz, K.: Tonotopic organization of the auditory cortex: pitch versus frequency representation. p486 27 Oct 1989.
- Parce, J. Wallace; Owicki, John C.; Kercso, Karen M.; Sigal, George B.; Wada, H. G.; Muir, Victoria C.; Bousse, Luc J.; Ross, Kevin L.; Sikic, Branimir I.; McConnell, Harden M.: Detection of cell-affecting agents with a silicon biosensor. p243 13 Oct 1989.
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- (letter). p1236 8 Dec 1989.
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- ; Swanson, Robert N.; Rould, Mark A.; Steitz, Thomas A.; Söll, Dieter: Structural basis for misaminoacetylation by mutant *E. coli* glutaminyl-tRNA synthetase enzymes. p1152 1 Dec 1989.
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- Pfeifer, Gerd P.; Steigerwald, Sabine D.; Mueller, Paul R.; Wold, Barbara; Riggs, Arthur D.: Genomic sequencing and methylation analysis by ligation mediated PCR. p810 10 Nov 1989.
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- Pizza, Mariagrazia; Covacci, Antonio; Bartoloni, Antonella; Perugini, Maria; Nencioni, Luciano; De Magistris, Maria Teresa; Villa, Luigi; Nucci, Danièle; Manetti, Roberto; Bugnoli, Massimo; Giovannoni, Franco; Olivieri, Roberto; Barbieri, Joseph T.; Sato, Hiroko; Rapuoli, Rino: Mutants of pertussis toxin suitable for vaccine development. p497 27 Oct 1989.
- Plant, Charles P. See Chiang, Hui-Ling.
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- ## Q and R
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- Richardson, Jennifer H.; Wucherpfennig, Kai W.; Endo, N.; Rudge, Peter; Dalgleish, Angus G.; Hafler, David A.: PCR analysis of DNA from multiple sclerosis patients for the presence of HTLV-I (technical comment). p821 10 Nov 1989.
- Richey, Jeffrey E.; Nobre, Carlos; Deser, Clara: Amazon River discharge and climate variability: 1903 to 1985. p101 6 Oct 1989.
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- Rould, Mark A. See Perona, John J.
- ; Perona, John J.; Söll, Dieter; Steitz, Thomas A.: Structure of *E. coli* glutaminyl-tRNA synthetase complexed with tRNA^{Gln} and ATP at 2.8 Å resolution. p1135 1 Dec 1989.
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- ## S
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- Sah, P.; Hestrin, S.; Nicoll, R. A.: Tonic activation of NMDA receptors by ambient glutamate enhances excitability of neurons. p815 10 Nov 1989.
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- Schafer, W.; Straney, D.; Ciuffetti, L.; Van Etten, H. D.; Yoder, O. C.: One enzyme makes a fungal pathogen, but not a saprophyte, virulent on a new host plant. p247 13 Oct 1989.
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- Smith, B. A.; Soderblom, L. A.; Banfield, D.; Barnet, C.; Basilevsky, A. T.; Beebe, R. F.; Bollinger, K.; Boyce, J. M.; Brahic, A.; Briggs, G. A.; Brown, R. H.; Chyba, C.; Collins, S. A.; Colvin, T.; Cook, A. F., II; Crisp, D.; Croft, S.; Cruikshank, D.; Cuzzi, J. N.; Danielson, G. E.; Davies, M. E.; De Jong, E.; Dones, L.; Godfrey, D.; Goguen, J.; Grenier, I.; Haemerle, V. R.; Hammel, H.; Hansen, C. J.; Helfenstein, C. P.; Howell, C.; Hunt, G. E.; Ingerson, A. P.; Johnson, T. V.; Kargel, J.; Kirk, R.; Kuehn, D. I.; Limaye, S.; Masursky, H.; McEwen, A.; Morrison, D.; Owen, T.; Owen, W.; Pollack, J. B.; Porco, C. C.; Rages, K.; Rogers, P.; Rudy, D.; Sagan, C.; Schwartz, J.; Showalter, M.; Sicardi, B.; Simonelli, D.; Spencer, J.; Sromovsky, L. A.; Stoker, C.; Stron, R. G.; Suomi, V. E.; Synott, S. P.; Terrile, R. J.; Thomas, P.; Thompson, W. R.; Verbiscer, A.; Veverka, J.; Voyager 2 at Neptune: imaging science results. p1422 15 Dec 1989.
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- Söll, Dieter. *See* Perona, John J. *See also* Rould, Mark A.
- Solomon, Adam. *See* Hodes, Richard J.
- Sommer, Steve S. and Sarkar, Gobinda: Are tissues a patch quilt of ectopic gene expression? (technical comment). p261 13 Oct 1989.
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- Stoker, C. *See* Smith, B. A.
- Stone, E. C.; Cummings, A. C.; Looper, M. D.; Selesnick, R. S.; Lal, N.; McDonald, F. B.; Trainor, J. H.; Chenette, D. L.: Energetic charged particles in the magnetosphere of Neptune. p1489 15 Dec 1989.
- Stone, E. C. and Miner, E. D. The Voyager 2 encounter with the Neptunian system. p1417 15 Dec 1989.
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- Strambi, Colette. *See* Robinson, Gene E.
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- Stuber, Dietrich. *See* Nardin, Elizabeth H.
- Su, Tsung-Ping; London, Edythe D.; Jaffe, Jerome H.: Steroid binding at σ -“opioid” receptors (technical comment). p1637 22 Dec 1989.
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- Suthers, G. K.; Callen, D. F.; Hyland, V. J.; Kozman, H. M.; Baker, E.; Eyre, H.; Harper, P. S.; Roberts, S. H.; Hors-Cayla, M. C.; Davies, K. E.; Bell, M. V.; Sutherland, G. R.: A new DNA marker tightly linked to the fragile X locus (*FRA-XA*). p1298 8 Dec 1989.
- Sutton, Peter: review of *We Are Here*, edited by Edwin N. Wilmsen. p510 27 Oct 1989.
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- T’Ang, Anne. *See* Miura, Koichiro.
- Takacs, Bela. *See* Nardin, Elizabeth H.
- Takahashi, Hideki; Merli, Silvia; Putney, Scott D.; Houghten, Richard; Moss, Bernard; Germain, Ronald N.; Berzofsky, Jay A.: A single amino acid interchange yields reciprocal CTL specificities for HIV-1 gp160. p118 6 Oct 1989.
- Takahashi, Takashi; Nau, Marion M.; Chiba, Itsuo; Birrer, Michael J.; Rosenberg, Richard K.; Vinocour, Michelle; Levitt, Mark; Pass, Harvey; Gazdar, Adi F.; Minna, John D.: p53: a frequent target for genetic abnormalities in lung cancer. p491 27 Oct 1989.
- Talent, John A.: The “misplaced” fossils (letter). p740 10 Nov 1989.
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- Thompson, L. G.; Mosley-Thompson, E.; Davis, M. E.; Bolzan, J. F.; Dai, J.; Yao, T.; Gundestrup, N.; Wu, X.; Klein, L.; Xie, Z.: Holocene–Late Pleistocene climatic ice core records from Qinghai-Tibetan Plateau. p474 27 Oct 1989.
- Thompson, W. R. *See* Smith, B. A.
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Vilas, Faith and Gaffey, Michael J.: Phyllosilicate absorption features in main-belt and outer-belt asteroid reflectance spectra. p790 10 Nov 1989.
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Oct 1989. Congress finds bugs in the software. p753 10 Nov 1989. Did life really start out in an RNA world? p1248 8 Dec 1989. Faith in fifth force fades. p760 10 Nov 1989. Galileo (whew!) changes course. p997 24 Nov 1989. How do you read from the palimpsest of life? p578 3 Nov 1989. Hubble: Great Telescope, Bad Service Plan. p1551 22 Dec 1989. Humanity 2, computers 0. p572 3 Nov 1989. A new Soviet plan for exploring the planets. p211 13 Oct 1989. Riskin tries to stop Galileo launch. p30 6 Oct 1989. The structure of the "second genetic code." p1122 1 Dec 1989.
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Warwick, James W.; Evans, David R.; Peltzer, Gerard R.; Peltzer, Robert G.; Romig, Joseph H.; Sawyer, Constance B.; Riddle, Anthony C.; Schweitzer, Andrea E.; Desch, Michael D.; Kaiser, Michael L.; Farrell, William M.; Carr, Thomas D.; de Pater, Imke; Staelin, David H.; Gulkis, Samuel; Poynter, Robert L.; Boisshot, André; Genova, Françoise; Leblanc, Yolande; Lecacheux, Alain; Pedersen, Bent M.; Zarka, Philippe: Voyager planetary radio astronomy at Neptune. p1498 15 Dec 1989.
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_____, Brenner, Anita C.; Major, Judy A.; Bindashler, Robert A.; Marsh, James G.: Growth of Greenland ice sheet measurements. p1587 22 Dec 1989.

